

ANT-129-001

4G/LTE Cross-Polarized (MIMO) 7-10 dBi Panel Antenna



Applications

- High Gain Directional Signal Enhancement
- 4G/LTE Modems, Routers & Hotspots
- Poor Signal Coverage Areas
- Indoor or Outdoor Use
- Home / Office / Commercial Installations



Product Features

- Cross-Polarized MIMO Elements for Improved Signal Quality & Performance
- Wide Beamwidth for Easy Positioning
- Weatherproof, Compact & Light-weight
- N Female Connectors
- Pole or Wall Mountable
- Compatible with all 4G/LTE Networks
- Compatible with most 4G/LTE Modems/Routers

Ordering Information

Part No.	Description
ANT-129-001	Proxicast 4G/LTE Cross-Polarized (MIMO) 7-10 dBi Fixed-Mount Panel Antenna

General Description

Proxicast's dual polarized directional LTE MIMO antenna is ideal for signal enhancement in virtually any cellular application.

It is compatible with all 3G and 4G/LTE data services from Verizon, AT&T, Sprint, T-Mobile, Bell Mobility, Rogers, Telus and most other cellular operators worldwide.

The antenna incorporates two separately fed ultra wideband elements in a single housing which focus radio energy into a 75 degree beam enabling connection to distant cell towers. The elements are set at 45 degree angles to provide cross-polarized multiple input / multiple output (MIMO) connectivity for LTE radio equipment resulting in higher performance.

With appropriate adapter cables (not included), this antenna is compatible with cellular modems, hotspots and routers from Cisco, Cradlepoint, Digi, Pepwave, Proxicast, Sierra Wireless and others.

The antenna's compact, light-weight rugged housing, heavy duty mounting hardware and corrosion-resistant materials make it ideal for outdoor applications including building rooftops, utility poles, or surveillance trailers.

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Electrical Specifications

Parameter	Rating
Frequency Range (all major cellular bands)	698~960 MHz 1710~2030 MHz 2110~2200 MHz 2300~2390 MHz 2500~2690 MHz
Peak Gain	7 -10 dBi frequency dependent
Beam Width Horizontal	70° / 75°
Beam Width Vertical	75° / 60°
VSWR	≤1.8:1
Input Impedance	50 Ohm
Polarization	Vertical + Horizontal @ ±45° (90° relative)
Max Input Power	50 W
Ground Plane	Not Required
DC Grounded	No

Mechanical Specifications

Parameter	Rating
Connector Type	2x N Female (jack)
Cable Length	12 in (300mm) RG58U low-loss coax
Mounting	Pole or Wall – Pole Mounting Bracket included 1.2 in min, 2.0 in max dia pole (30 – 50 mm)
Dimensions	11.8 x 7.2 X 2.75 in (300 x 183 x 70 mm)
Materials	Radome: UV stabilized ABS plastic Connector: Brass Mounting: Aluminum / Stainless U-Bolts: Hot Dipped Galvanized Steel
Antenna Color	Ivory
Weight	1.4 lb (0.64 kg) excluding mounting hardware
Operating Temperature	-40°C to +60°C

Operation of this device outside the parameter ranges given above may cause permanent damage.

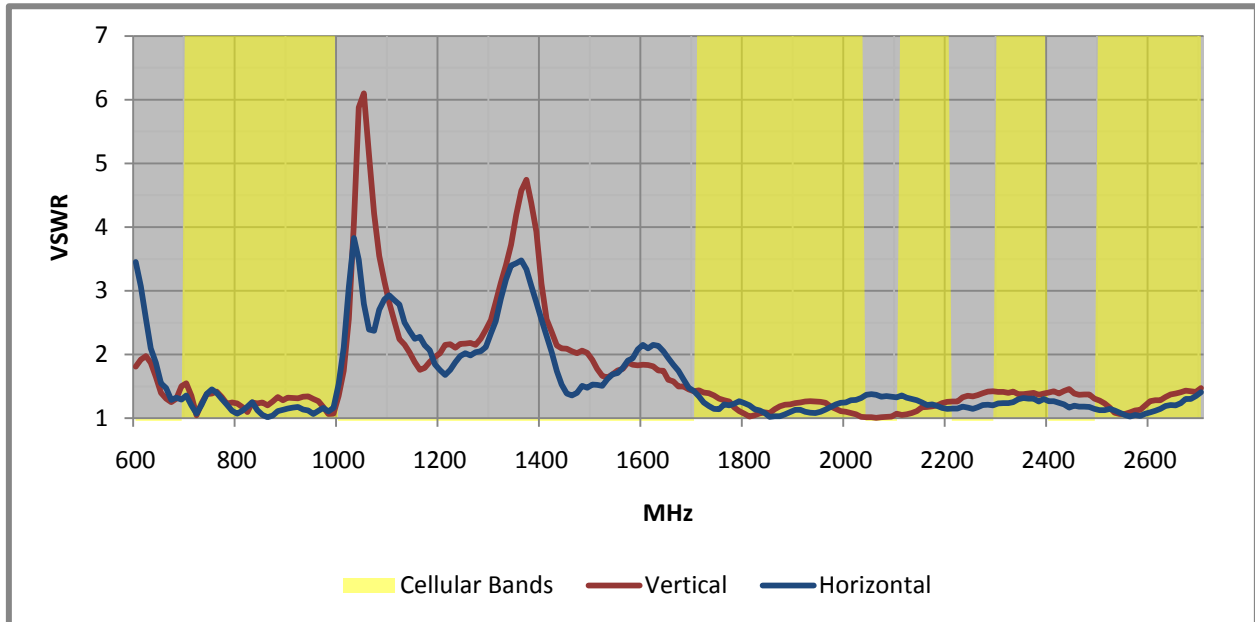
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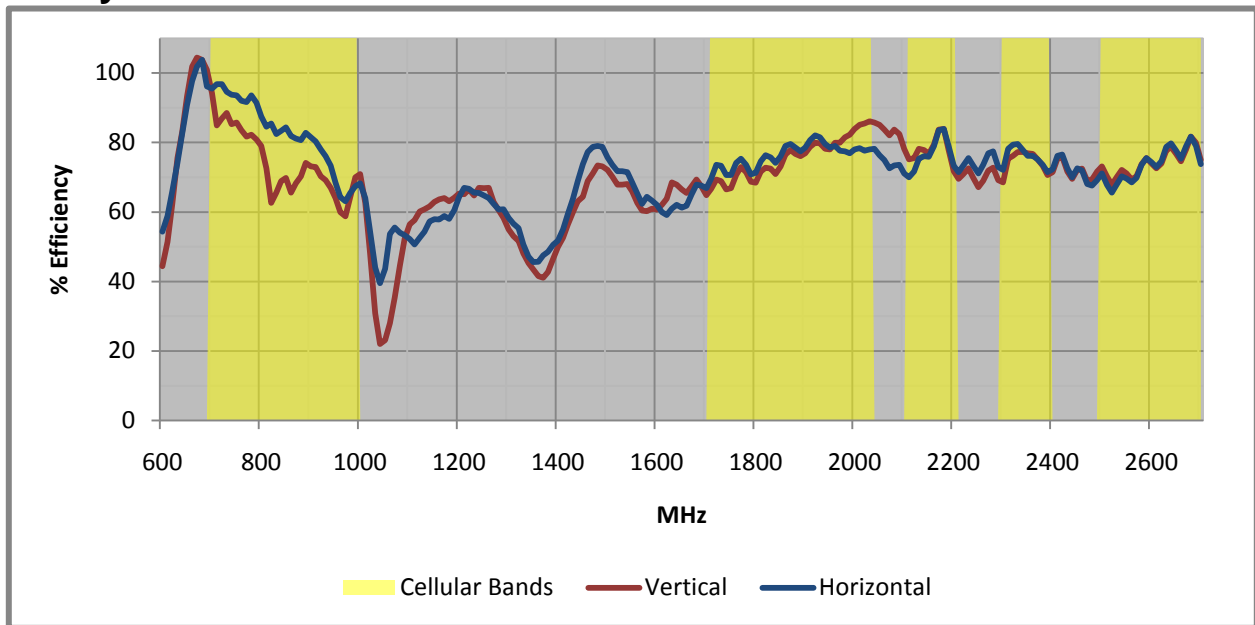


Electrical Characteristics

VSWR



Efficiency



Highlighted areas represent the primary 3G/4G/LTE frequency bands.

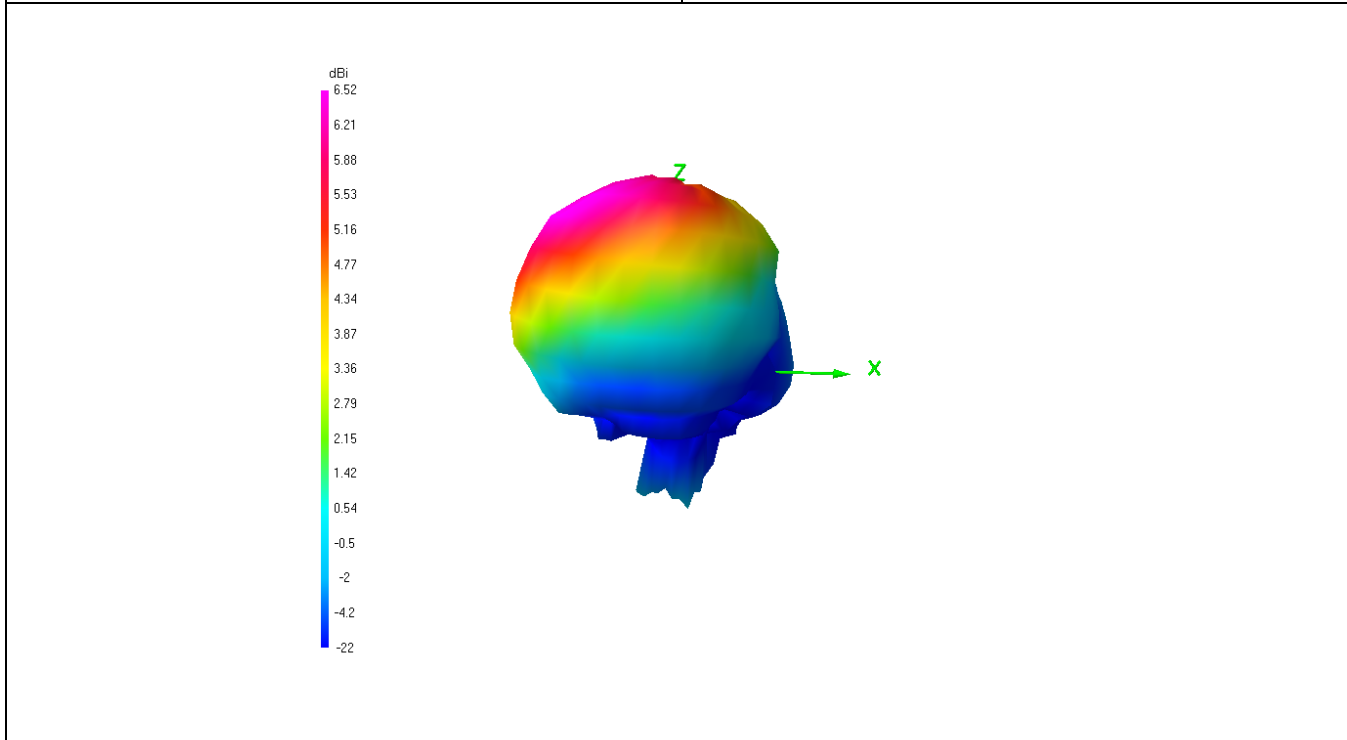
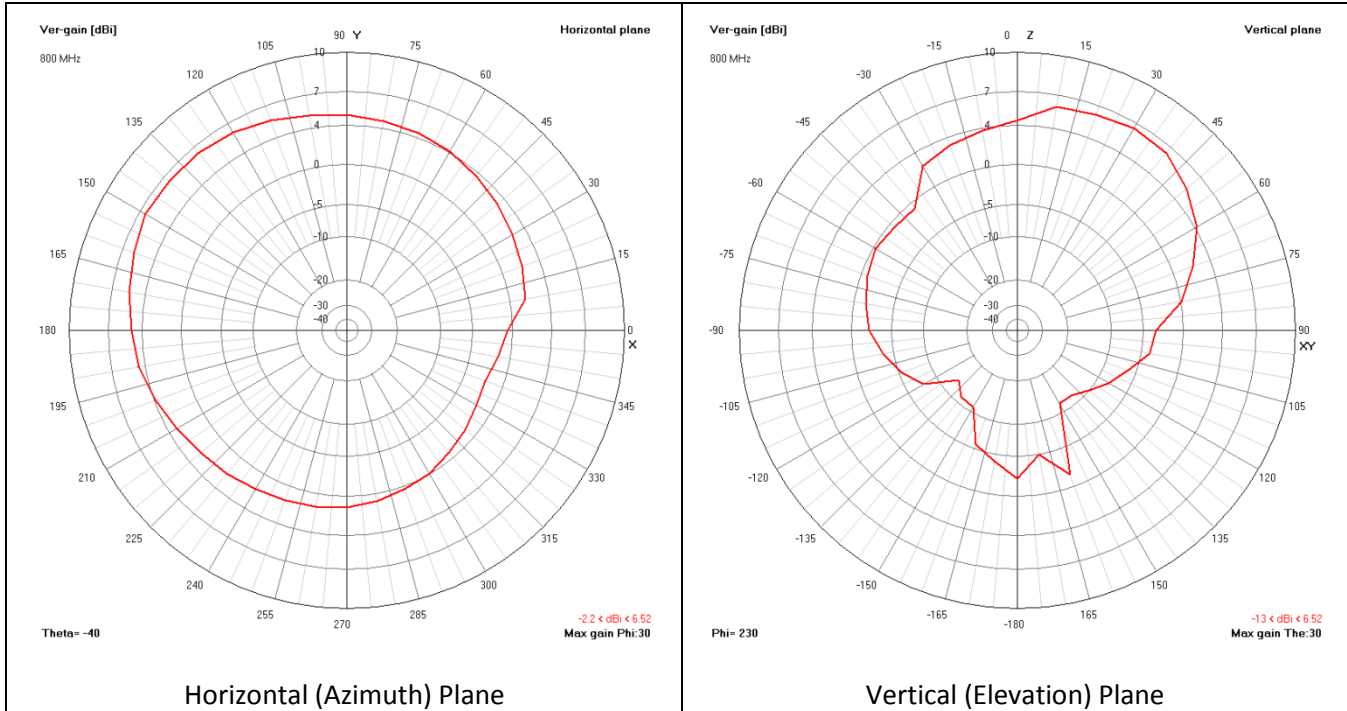
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Radiation Patterns

800 MHz



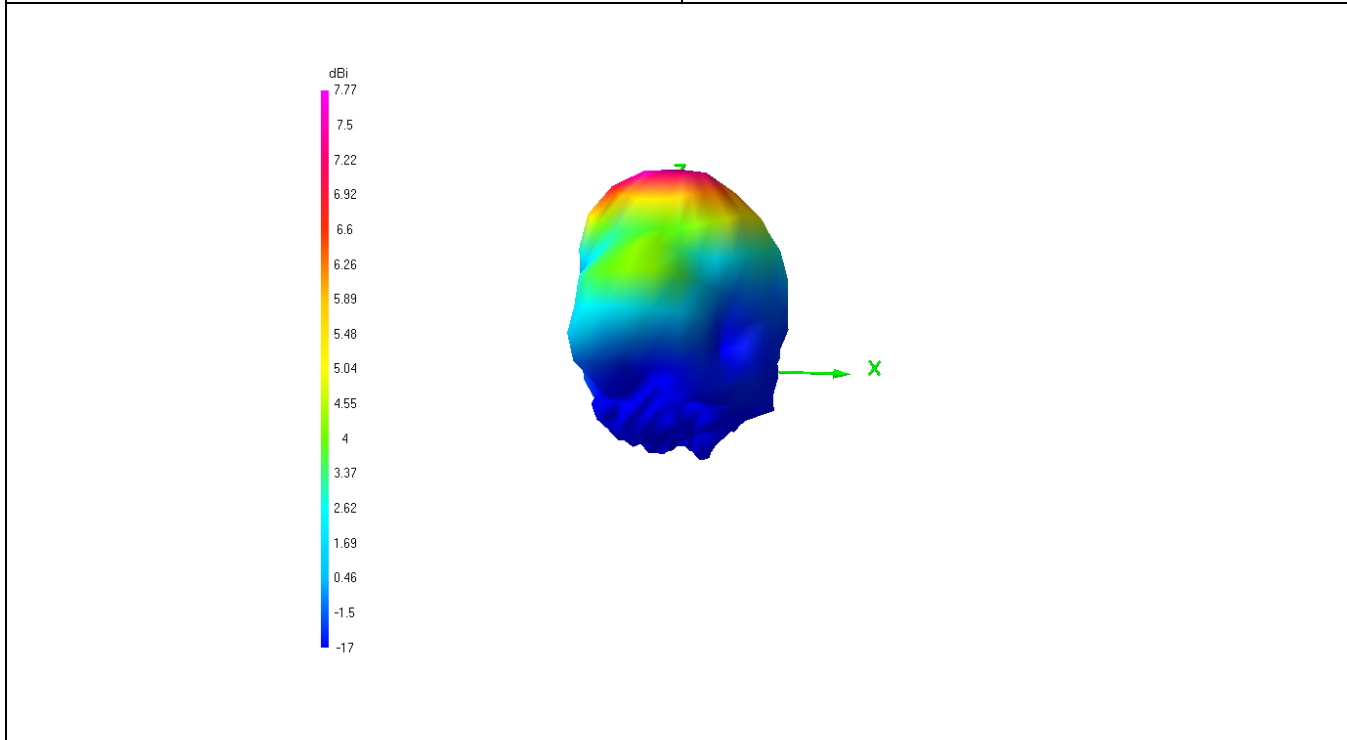
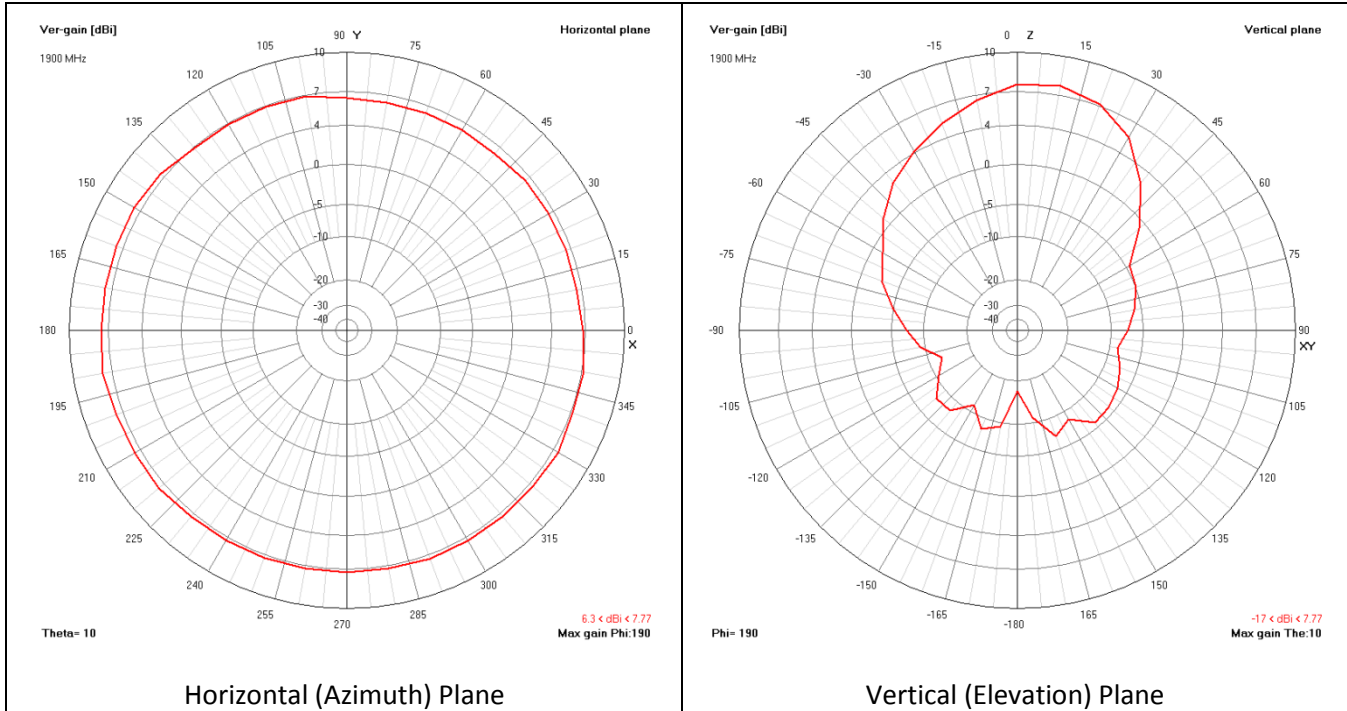
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Radiation Patterns

1900 MHz



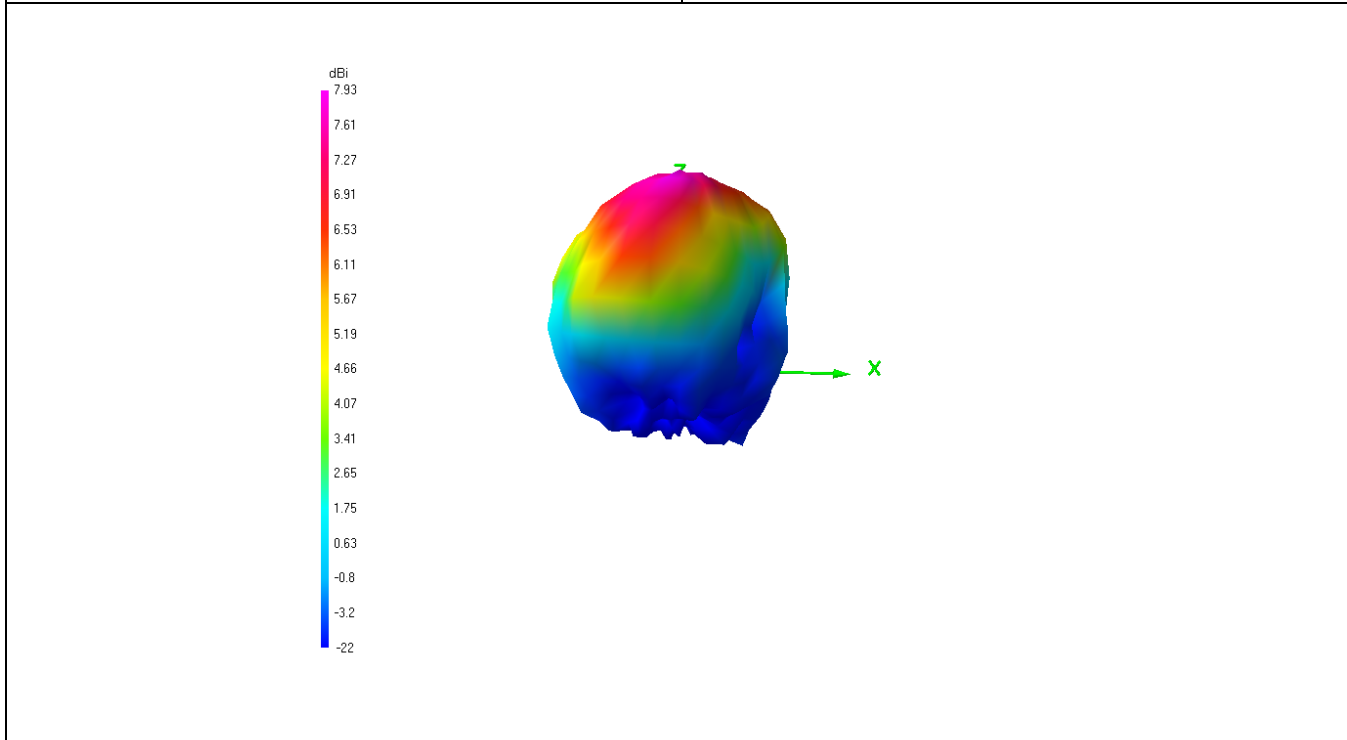
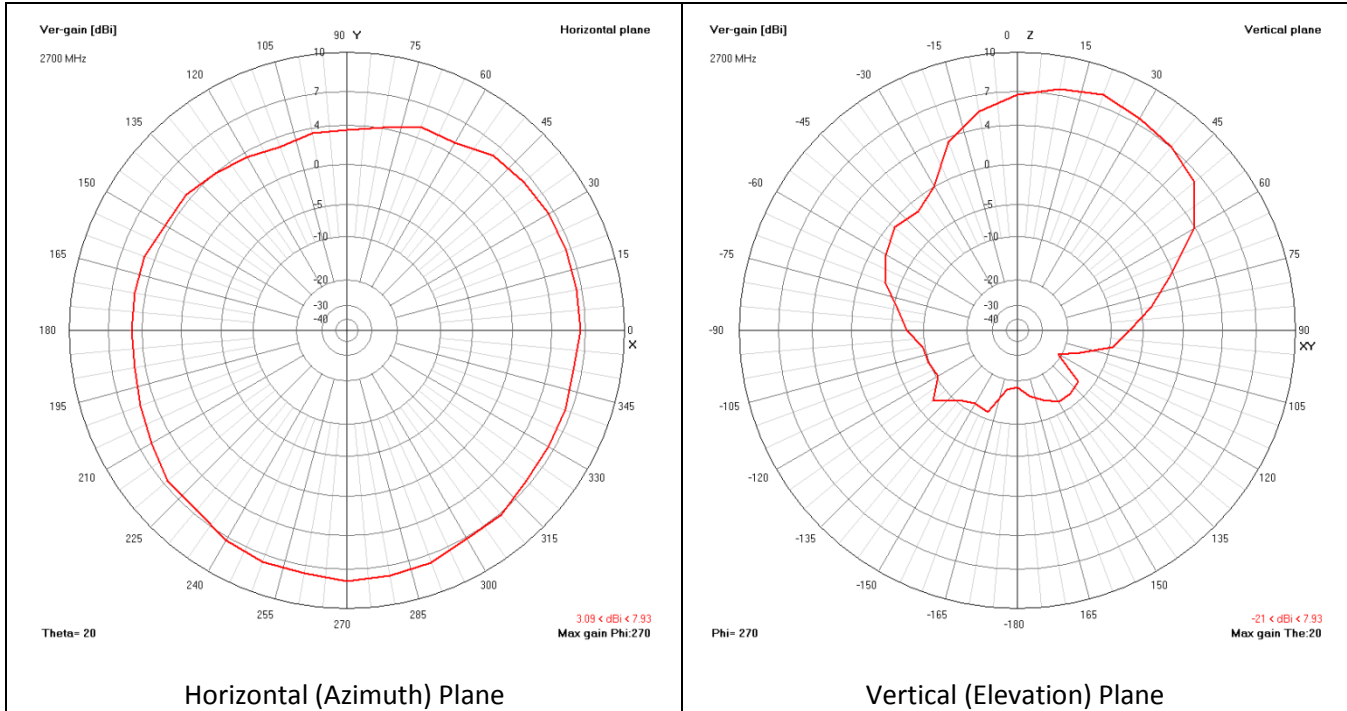
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Radiation Patterns

2700 MHz



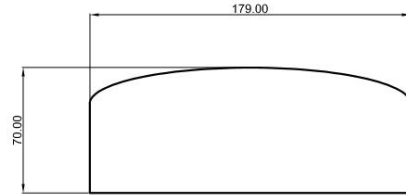
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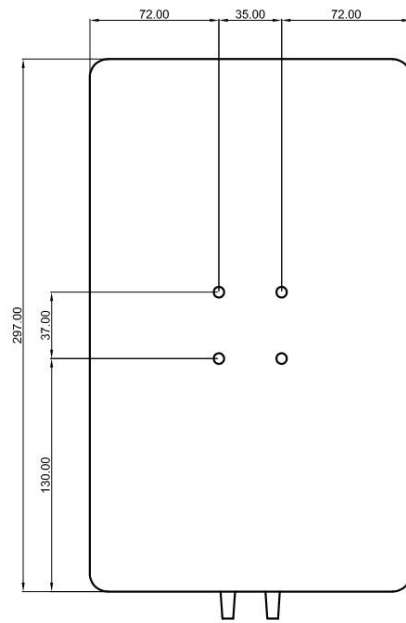


Product Dimensions

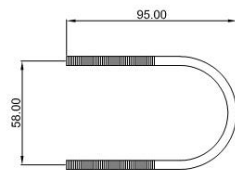
All dimensions in mm



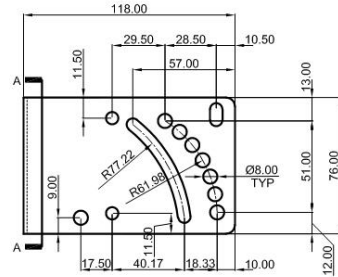
ANTENNA - TOP



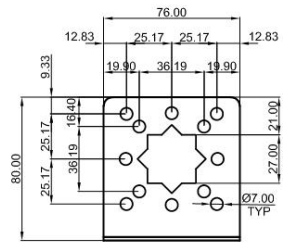
ANTENNA - BACK



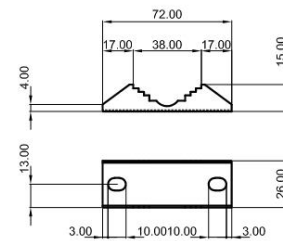
"U" BOLT



MOUNTING PLATE



SECTION A-A



CLAMP

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Additional Product Images

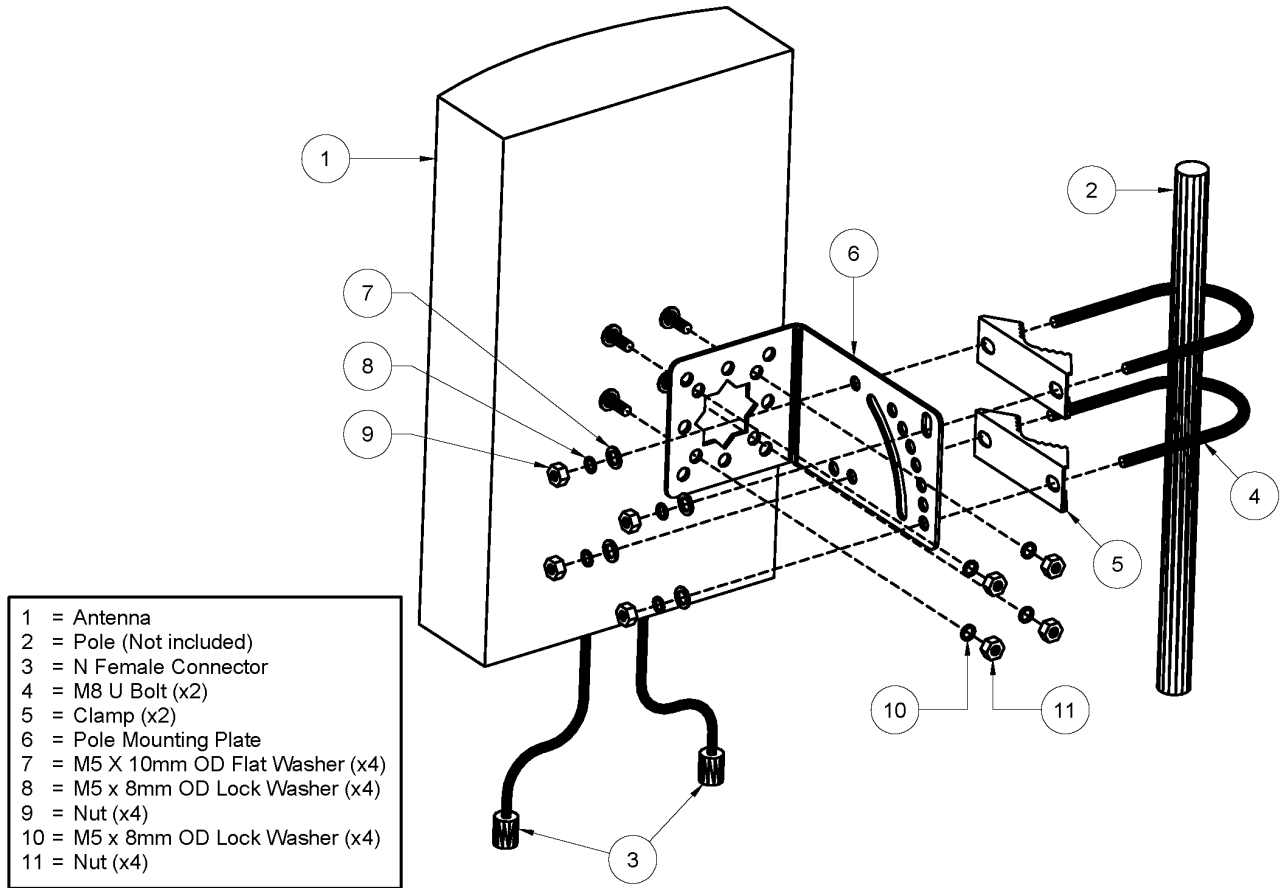


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Installation Instructions



Directional Antenna Installation Tips

- Determine location of nearest cell tower for your carrier (see opensignal.org or cellreception.com)
- Orient antenna so cables point downward
- Mount antenna to 2.0 inch max diameter mast or to wall as high as possible
- Point antenna toward cell tower
- Point away from:
 - other antennas
 - trees & buildings
 - large vertical metal or concrete objects
- Adjust antenna position left/right and up/down tilt to find optimal signal
- Keep coax lead cable as short as possible & weatherproof all outdoor connectors
- Observe safety codes regarding lightning protection, grounding, and mast height

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Contact Information

For the latest specifications, additional product information, worldwide sales and information about Proxicast:

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